(3) The original of this record must be supplied to the cask user. A current copy of a composite record of all casks manufactured under a Certificate of Compliance, showing the information in paragraph (d)(2) of this section must be initiated and maintained by the cask vendor for each model cask. If the cask vendor permanently ceases production of casks under a Certificate of Compliance, this composite record must be sent to the Commission using instructions in § 72.4.

(e) The composite record required by paragraph (d) of this section must be available to the Commission for inspection.

(f) The cask vendor shall ensure that written procedures and appropriate tests are established prior to use of the casks. A copy of these procedures and tests must be provided to each cask user.

§ 72.236 Specific requirements for spent fuel storage cask approval.

(a) Specification must be provided for the spent fuel to be stored in the cask, such as, but not limited to, type of spent fuel (i.e., BWR, PWR, both), maximum allowable enrichment of the fuel prior to any irradiation, burn-up (i.e., megawatt-days/MTU), minimum acceptable cooling time of the spent fuel prior to storage in the cask, maximum heat designed to be dissipated, maximum spent fuel loading limit, condition of the spent fuel (i.e., intact assembly or consolidated fuel rods), the inerting atmosphere requirements.

(b) Design bases and design criteria must be provided for structures, systems, and components important to safety.

(c) The cask must be designed and fabricated so that the spent fuel is maintained in a subcritical condition under credible conditions.

(d) Radiation shielding and confinement features must be provided sufficient to meet the requirements in §§ 72.104 and 72.106.

(e) The cask must be designed to provide redundant sealing of confinement systems.

(f) The cask must be designed to provide adequate heat removal capacity without active cooling systems.

(g) The cask must be designed to store the spent fuel safely for a minimum of 20 years and permit maintenance as required.

(h) The cask must be compatible with wet or dry spent fuel loading and unloading facilities.

(i) The cask must be designed to facilitate decontamination to the extent practicable.

(j) The cask must be inspected to ascertain that there are no cracks, pinholes, uncontrolled voids, or other defects that could significantly reduce its confinement effectiveness.

(k) The cask must be conspicuously and durably marked with:

(1) A model number;

(2) A unique identification number; and

(3) An empty weight.

(l) The cask and its systems important to safety must be evaluated, by appropriate tests or by other means acceptable to the Commission, to demonstrate that they will reasonably maintain confinement of radioactive material under normal, off-normal, and credible accident conditions.

(m) To the extent practicable in the design of storage casks, consideration should be given to compatibility with removal of the stored spent fuel from a reactor site, transportation, and ultimate disposition by the Department of Energy.

§ 72.238 Issuance of an NRC Certificate of Compliance.

A Certificate of Compliance for a cask model will be issued by NRC on a finding that the requirements in § 72.236 (a) through (i) are met.

§ 72.240 Conditions for spent fuel storage cask reapproval.

(a) The holder of a cask Certificate of Compliance, a user of a cask approved by NRC, or the representative of a cask user must apply for a cask model reapproval.

(b) The application for reapproval of a cask model must be submitted not less than 30 days prior to the expiration date of the Certificate of Compliance. When the applicant has submitted a timely application for reapproval, the existing Certificate of Compliance will not expire until the application for